Installation Details

<table>
<thead>
<tr>
<th>Model of Water conditioner</th>
<th>Custom C8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Diameter (OD)</td>
<td>8.625”</td>
</tr>
<tr>
<td>Pipe Material</td>
<td>Metal</td>
</tr>
<tr>
<td>Installation location (before/after pump)</td>
<td>Bleach Plant Mezzanine Floor - 30’ before the E1 unit</td>
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</tbody>
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Overview

1. **General**
   The bleach plant has multiple shower units which suffer from severe limescale accumulation. Shower nozzles need to either be hydro-blasted or replaced periodically.

2. **Trial method**
   The trial will start with clean or new nozzles with zero limescale buildup. Shower units to be examined after 11 weeks - the treated E1 unit will be compared to the untreated D1 unit. If needed, a third inspection will take place on October 11, 2011.

3. **Expected results**
   New scale deposits in the E1 unit to be less labor intensive to clean.
Pictures of application

Untreated D1 unit  Treated E1 unit

Installation point

30’ before the E1 shower nozzles  Scope reading of 33~37 peak-to-peak voltage

Comparison pictures
Untreated D1 unit

Treated E1 unit

Untreated D1 nozzle – close up

Treated E1 nozzle – close up

Untreated D1 nozzle – 30’ down the line

Treated E1 nozzle – 30’ down the line
Results

The D1/E1 comparison pictures speak for themselves...

Conclusion

*Hydopath Technology can be recommended as a chemical-free method of treating limescale related problems at a paper mill bleach plant.*

Referral

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